S 5287

OBSTRUCTION DATA SHEET

ODS 5287
ELKHART MUNICIPAL AIRPORT
ELKHART, INDIANA

DIGITIZED FROM

OC 5287
SURVEYED OCTOBER 1990
7TH EDITION

PREPARED AND DISTRIBUTED BY
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See SPECIAL NOTICES in "Dates of Latest Editions, Airport Obstruction Charts - Obstruction Data Sheets," for possible corrections. National Oceanic and Atmospheric Administration (NOAA) publications are available through NOAA Distribution Branch (N/CG33), National Ocean Service, Riverdale, MD 20737. Telephone: 301-436-6990

OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

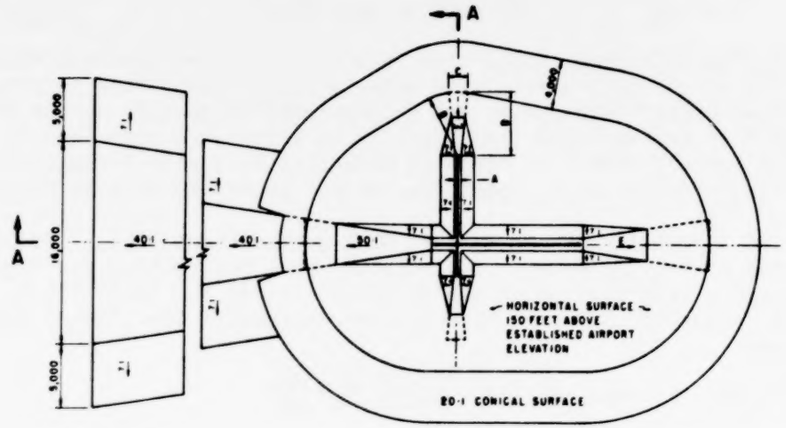
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C .... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D .... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ...... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

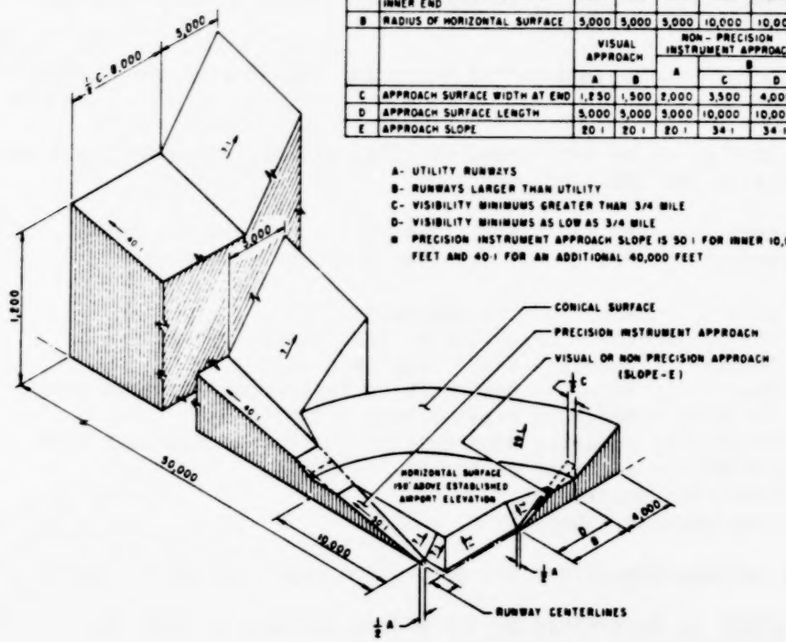
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON - PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON - PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X^{1}	X^{2} XXXX/XXXX^{3}	XXXXXX.XXX^{4}	XXXXXXX.XXX^{4}	XXXXXXX^{5}	XXXX/XXXX^{6}	XXXXXX.XXX^{7}	XXXXXXX.XXX^{7}						
OBJECT		LAT	LONG	A^{8}	ELEV^{9}	AGL^{10}	HAR^{11}	HAT^{11}	HAA^{11}	DEND^{12}	DTHR^{12}	DCLN^{12}	PNTR^{13}
XXXXXXXXXX		XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXX		XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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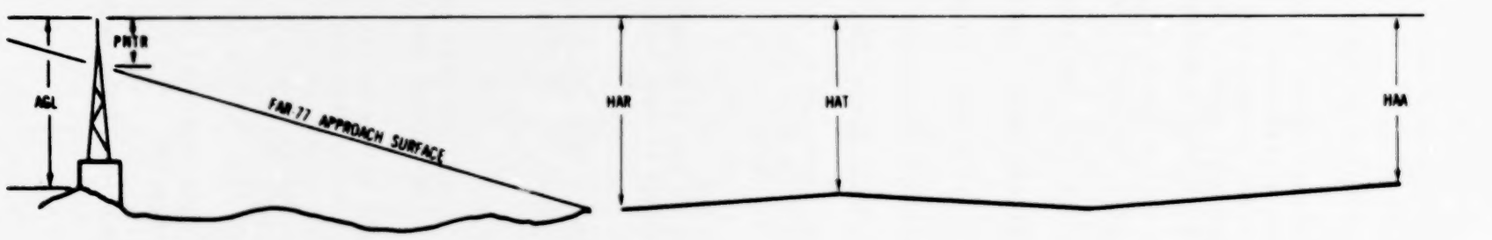
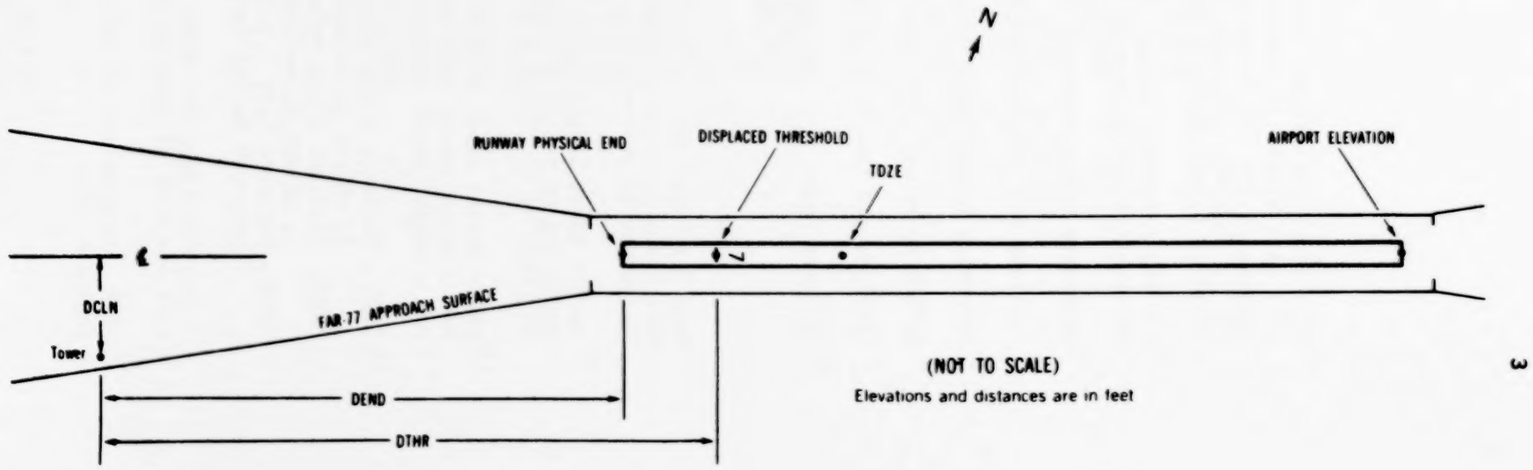




(NOT TO SCALE)

Elevations and distances are in feet

EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned clockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC5287

AIRPORT ELEVATION 778

9L SUPLC 774/776 414322.009N 0860055.799W 2695341

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ELECTRICAL BOX	414323.66	0855940.61	1A	782		8	6	4	-5702		158L	4
WINDSOCK	414320.16	0860049.09	1A	781		7	5	3	-508		188R	6
ANTENNA ON BUILDING	414322.49	0860109.22	1A	788		14	12	10	1018		50L	-10
TREE	414321.64	0860124.07	1A	795		21	19	17	2144		33R	-36
TREE	414317.92	0860136.19	1A	832		58	56	54	3064		408R	-26
TREE	414323.57	0860140.58	1A	857		83	81	79	3396		164L	-11
TREE	414320.85	0860141.19	1A	853		79	77	75	3443		111R	-16
TREE	414315.44	0860151.91	1A	856		82	80	78	4256		657R	-37

27R C 778/778 414322.102N 0855943.386W 0895429

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WINDSOCK	414320.16	0860049.09	1A	781		3	3	3	-4983		188L	6
ELECTRICAL BOX	414323.66	0855940.61	1A	782		4	4	4	211		158R	4
PIPE ON FUEL PUMP	414325.61	0855932.43	1A	790		12	12	12	831		354R	-7
ROAD(N)	414318.19	0855914.95	1A	791		13	13	13	2156		399L	-45
TREE	414325.53	0855909.18	1A	863		85	85	85	2594		343R	15
TREE	414322.89	0855908.84	1A	849		71	71	71	2620		76R	-1
TREE	414319.15	0855906.23	1A	848		70	70	70	2817		304L	-7

OC5287

AIRPORT ELEVATION 778

9R C 771/776 414315.074N 08601 9.802W 2695309

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WINDSOCK	414320.16	0860049.09	1A	781		10	5	3	-1571		512L	8
GROUND	414311.50	0860049.74	1A	774		3	-2	-4	-1521		364R	1
WINDSOCK	414312.88	0860056.24	1A	776		5	0	-2	-1028		224R	4
TREE	414317.92	0860136.19	1A	832		61	56	54	2001		292L	8
TREE	414320.85	0860141.19	1A	853		82	77	75	2379		590L	18
TREE	414308.67	0860148.81	1A	852		81	76	74	2960		642R	-1
TREE	414312.38	0860148.86	1A	855		84	79	77	2963		267R	3
TREE	414315.44	0860151.91	1A	856		85	80	78	3193		44L	-3

27L PIR 777/777 414315.193N 0855944.092W 0895406

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WINDSOCK	414312.88	0860056.24	1A	776		-1	-1	-2	-5472		224L	4
GROUND	414311.50	0860049.74	1A	774		-3	-3	-4	-4979		364L	1
WINDSOCK	414320.16	0860049.09	1A	781		4	4	3	-4928		512R	8
ROAD(N)	414318.19	0855914.95	1A	791		14	14	13	2210		300R	-26
TREE	414322.89	0855908.84	1A	849		72	72	71	2675		775R	23
TREE	414307.66	0855908.65	1A	845		68	68	67	2687		767L	18
TREE	414315.32	0855908.15	1A	852		75	75	74	2726		9R	24
TREE	414309.95	0855907.72	1A	851		74	74	73	2757		536L	23
TREE	414319.15	0855906.23	1A	848		71	71	70	2872		395R	18
TREE	414308.80	0855847.33	1A	871		94	94	93	4304		654L	12

OC5287

AIRPORT ELEVATION 778

17 A(NP) 778/778 414319.946N 0855935.808W 3515627

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	414240.80	0855925.45	1A	810		32	32	32	-4033		222L	38
TREE	414243.13	0855925.75	1A	817		39	39	39	-3796		233L	45
WINDSOCK	414245.58	0855931.77	1A	777		-1	-1	-1	-3487		184R	4
ROAD (N)	414327.50	0855937.31	1A	793		15	15	15	773		6R	-14
OL ON BUILDING	414328.64	0855933.24	1A	805		27	27	27	844		316L	-5
TREE	414330.88	0855941.19	1A	822		44	44	44	1153		249R	-4
TREE	414334.05	0855935.65	1A	827		49	49	49	1411		212L	-12
TREE	414336.17	0855943.84	1A	839		61	61	61	1711		373R	-15
TRANSMISSION TOWER	414404.22	0855937.95	1A	885		107	107	107	4460		468L	-106

35 A(NP) 772/776 414240.812N 0855928.414W 1715632

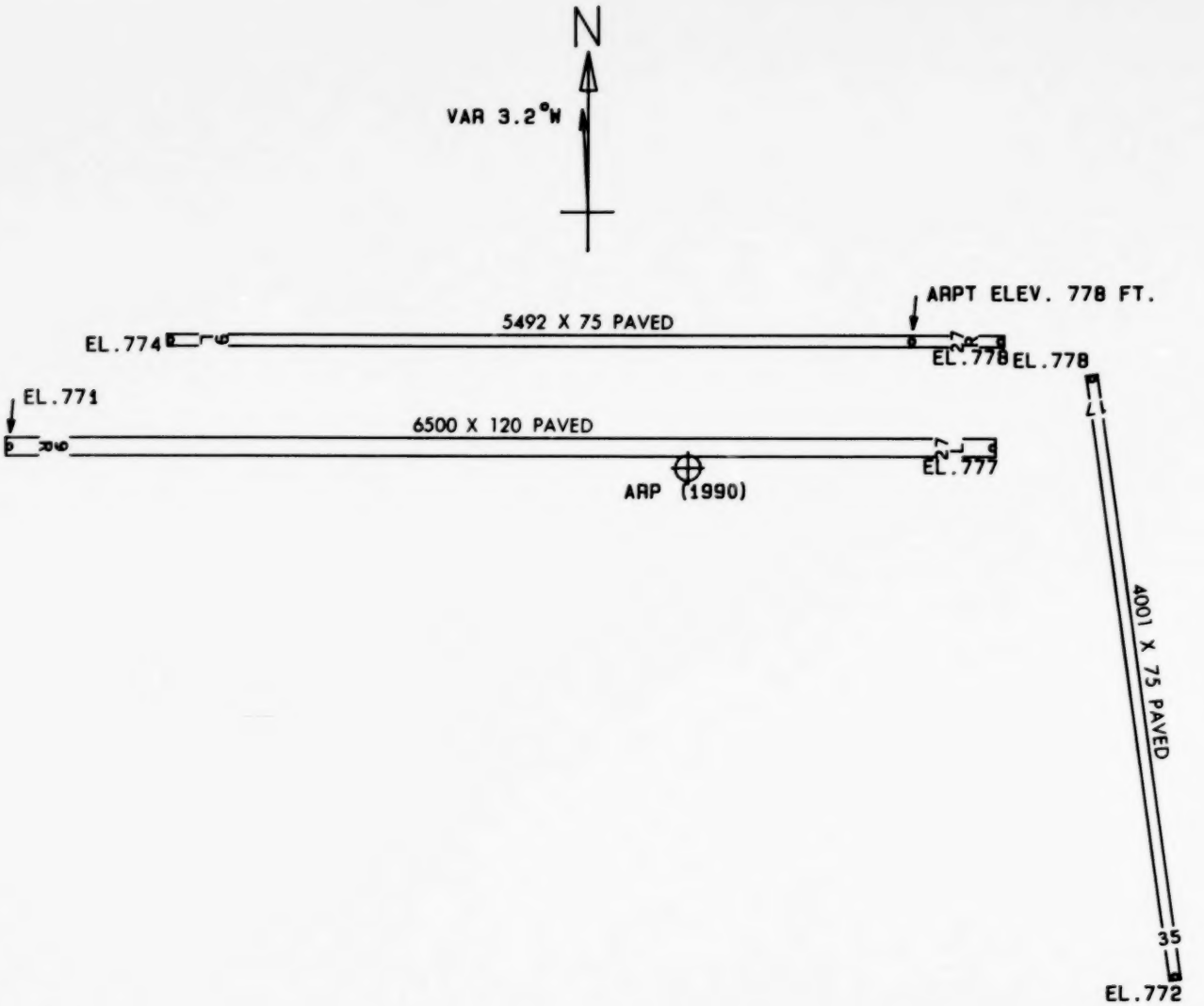
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WINDSOCK	414245.58	0855931.77	1A	777		5	1	-1	-514		184L	4
TREE	414243.13	0855925.75	1A	817		45	41	39	-204		233R	45
TREE	414240.80	0855925.45	1A	810		38	34	32	33		222R	38
TREE	414238.53	0855924.77	1A	806		34	30	28	268		241R	31
TREE	414235.16	0855931.17	1A	814		42	38	36	537		287L	25
TREE	414234.66	0855924.88	1A	810		38	34	32	655		178R	15
TREE	414232.91	0855928.98	1A	813		41	37	35	786		155L	12
TREE	414231.77	0855927.63	1A	828		56	52	50	914		69L	20
TREE	414229.31	0855927.40	1A	825		53	49	47	1164		87L	5
TREE	414228.20	0855920.35	1A	837		65	61	59	1350		427R	7
TREE	414226.52	0855924.05	1A	836		64	60	58	1479		125R	1
TREE	414219.01	0855924.21	1A	843		71	67	65	2230		6R	-30

OC5287

AIRPORT ELEVATION 778

ARP 414313.821N 0860010.704W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
HANGAR	414325.71	0860013.21	1A	805		27	354 14	1218
HANGAR	414325.64	0860004.35	1A	804		26	25 8	1290
TREE	414328.43	0860013.28	1A	855		77	355 40	1491
OL ON LIGHTED WINDSOCK	414309.77	0855949.84	1A	797		19	107 44	1634
TREE	414330.05	0860000.91	1A	862		84	27 32	1803
TREE	414328.71	0855954.60	1A	856		78	42 13	1940
TREE	414306.84	0860037.13	1A	862		84	253 47	2125
OL ON ROD ON ATC TOWER	414326.06	0855947.14	1A	820		42	58 28	2174
OL ON HANGAR	414326.45	0860036.99	1A	804		26	305 53	2368
HANGAR	414301.43	0855938.65	1A	796		18	120 29	2736
POLE	414326.47	0860050.73	1A	802		24	296 5	3294
POLE	414326.37	0860054.81	1A	802		24	294 0	3578
TREE	414301.11	0855925.59	1A	847		69	113 48	3655
TREE	414256.75	0855925.84	1A	843		65	120 7	3816
POLE	414326.29	0860059.81	1A	800		22	291 55	3932
TREE	414306.17	0855917.19	1A	839		61	104 0	4132
TREE	414307.40	0860105.42	1A	845		67	264 18	4200
TREE	414248.46	0855925.98	1A	829		51	130 19	4254
TREE	414248.71	0855923.69	1A	862		84	128 41	4379
TREE	414306.68	0855912.92	1A	832		54	102 34	4441
TREE	414234.42	0855932.94	1A	830		52	147 31	4910
TREE	414305.78	0860117.30	1A	856		78	264 3	5115
TREE	414229.30	0855932.15	1A	835		57	150 13	5372
TREE	414307.09	0860123.39	1A	817		39	266 9	5554
TREE	414328.37	0860123.86	1A	832		54	288 5	5740
TREE	414306.98	0860132.38	1A	828		50	266 50	6233
OL ON MICROWAVE TOWER	414349.03	0860348.90	2A	1015	240	237	285 23	16926



TOUCHDOWN ZONE RUNWAY	ELEVATION
9L	776
27R	778
9R	776
27L	777
17	778
35	776

ELKHART MUNICIPAL AIRPORT

ELKHART, INDIANA

(NOT TO SCALE)